

Nuclear Science and Engineering Research and Educational Program in Nuclear Materials at the University of Missouri

Executive Summary:

Nuclear Science and Engineering (NSE) at the University of Missouri (MU) is growing at an unprecedented rate. The recent additions of a radiochemist (Chemistry Department) and a neutron scattering researcher (Physics Department) have expanded the sphere of expertise of NSE at MU. The Chemical Engineering (ChE) Department has recently secured two new faculty lines. One of these is slated for the hire of a tenure-track Assistant Professor with research interests focused on NSE, with a preference toward nuclear materials science and engineering. This hire will complement an existing faculty with strong ties to NSE. It will also serve to help develop a richer curriculum in the NSE courses it offers. Several candidates have been identified, each with either a research interest in nuclear materials or in supporting next generation nuclear plant (NGNP) concepts. Funds are requested from the NRC to aid in the development of a research and education program for this junior faculty addition. The advantage of investing in a young faculty member at MU is that this individual will be able to draw upon one of the largest, fastest-growing, interdisciplinary NSE programs in the country and a large pool of outstanding graduate students that regularly apply to the program.

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